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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joseph E. Geusic et al.

Title: INTEGRATED CIRCUITS USING OPTICAL WAVEGUIDE INTERCONNECTS FORMED THROUGH A SEMICONDUCTOR WAFER AND METHODS FOR FORMING SAME

Docket No.: 303.382US2

Filed: July 18, 2000

Examiner: Wai-Sing Louie

Serial No.: 09/618,648

Due Date: June 21, 2002

Group Art Unit: 2814

Box AF

Commissioner for Patents  
Washington, D.C. 20231

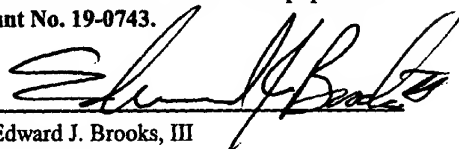
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We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ An Amendment and Response under 37 CFR § 1.116 (3 Pages).
- ☒ Clean Version of Pending Claims (2 pgs.).

Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional required fees or credit overpayment to Deposit Account No. 19-0743.

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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Box AF, Commissioner for Patents, Washington, D.C. 20231, on this 21st day of May, 2002.

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Signature Amy Moriarty

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**EXPEDITED PROCEDURE - EXAMINING GROUP 2814**

**S/N 09/618,648**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Joseph E. Geusic et al. Examiner: Wai-Sing Louie  
Serial No.: 09/618,648 Group Art Unit: 2814  
Filed: July 18, 2000 Docket: 303.382US2  
Title: INTEGRATED CIRCUITS USING OPTICAL WAVEGUIDE  
INTERCONNECTS FORMED THROUGH A SEMICONDUCTOR WAFER  
AND METHODS FOR FORMING SAME



Commissioner for Patents  
Washington, D.C. 20231

**AMENDMENT & RESPONSE UNDER 37 C.F.R. § 1.116**

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In response to the Final Office Action mailed March 21, 2002, please amend the application as follows:

**IN THE CLAIMS**

Please substitute the claim set in the appendix entitled Clean Version of Pending Claims for the previously pending claim set. The substitute claim set is intended to reflect amendment of previously pending claims 91, 94 and 99. The specific amendments to individual claims are detailed in the following marked up set of claims.

Claims 45-90 were indicated as being restrictable and were withdrawn from consideration by the examiner as being directed to a non-elected invention.

91. (Once Amended) An integrated circuit, comprising:  
at least one functional circuit formed on a wafer; and  
at least one optical [waveguides] waveguide formed in a high aspect ratio hole that [extend] extends through the wafer.
94. (Once Amended) An integrated circuit, comprising:  
at least one functional circuit formed on a wafer;  
at least one optical waveguide formed in a high aspect ratio hole that [extend] extends

*Please enter  
the amended claims  
Wai-Sing Louie  
6/21/02*

#9/C (net)  
6-11-02  
Makishy  
Jensen  
7/29/02